

Author index

- Abath, F.G.C., see Ali, P.O., 215
- Ahanotu, E., see Ahanotu, P.A., 131
- Ahanotu, P.A., Ahanotu, E., Srinivasan, N.G. and Harris, B.G., Trypsin modification of phosphofructokinase from *Ascaris suum*, 131
- Albrecht, S. and Walter, R.D.,
Hallucinogenic and neuroleptic drug interactions with potential neurotransmitter receptors in parasitic nematodes, 289
- Ali, P.O., Jeffs, S.A., Meadows, H.M., Hollyer, T., Owen, C.A., Abath, F.G.C., Allen, R., Hackett, F., Smithers, S.R. and Simpson, A.J.G.,
Structure of Sm25, an antigenic integral membrane glycoprotein of adult *Schistosoma mansoni*, 215
- Allen, R., see Ali, P.O., 215
- Amako, K., see Johnston, R.C., 155
- Anders, R.F., see Marshall, V.M., 349
- Ariztia-Carmona, E.V., see Gajadhar, A.A., 147
- Åslund, L., Henriksson, J., Campetella, A., Frasch, A.C.C., Pettersson, U. and Cazzulo, J.J.,
The C-terminal extension of the major cysteine proteinase (cruziain) from *Trypanosoma cruzi* (Short communication), 345
- Banerji, S., see Sinclair, K., 183
- Barr, P.J., Inselburg, J., Green, K.M., Kansopon, J., Hahn, B.K., Gibson, H.L., Lee-Ng, C.T., Bzik, D.J., Li, W. and Bathurst, I.C.,
Immunogenicity of recombinant *Plasmodium falciparum* SERA proteins in rodents, 159
- Basic, A., see Glaser, T.A., 337
- Bathurst, I.C., see Barr, P.J., 159
- Bennett, J.L., see Eshete, F., 1
- Bienen, E.J., Saric, M., Pollakis, G., Grady, R.W. and Clarkson, Jr., A.B.,
Mitochondrial development in *Trypanosoma brucei brucei* transitional bloodstream forms, 185
- Blumenfeld, N., see Zilberstein, D., 175
- Bogh, H.O., see Cogle, W.G., 137
- Brindley, P.J., see Klion, A.D., 297
- Brotman, B., see Lustigman, S., 65
- Brun, R., see Durieux, P.O., 19
- Bzik, D.J., see Barr, P.J., 159
- Campetella, A., see Åslund, L., 345
- Capron, A., see Facon, B., 233
- Caulagi, V.R., Werner, C. and Rajan, T.V.,
Isolation and partial sequence of a collagen gene from the human filarial parasite *Brugia malayi*, 57
- Cazzulo, J.J., see Åslund, L., 345
- Chamekh, M., see Facon, B., 233
- Clarkson, Jr., A.B., see Bienen, E.J., 185
- Clayton, C., see Fung, K., 261
- Coombs, G.H., see Meade, J.C., 349
- Coppel, R.L., see Marshall, V.M., 349
- Cogle, W.G., Lightowler, M.W., Bogh, H.O., Rickard, M.D. and Johnson, K.S.,
Molecular cloning of *Taenia taeniaeformis* oncosphere antigen genes, 137
- Courtney, C.H., see Dame, J.B., 275
- Dame, J.B., Yowell, C.A., Courtney, C.H. and Lindgren, W.G.,
Cloning and characterization of the ribosomal RNA gene repeat from *Ostertagia ostertagi*, 275
- Deans, J., see Parsons, M., 241
- De Vries, E., Stam, J.G., Franssen, F.F.J., van der Vliet, P.C. and Overduve, J.P.,
Purification and characterization of DNA polymerases from *Plasmodium berghei*, 223
- Dewes, H., see Johnston, R.C., 155
- Dissanayake, S., Min, X. and Piessens, W.F.,
Detection of amplified *Wuchereria bancrofti* DNA in mosquitoes with a nonradioactive probe, 49
- Dissous, C., see Facon, B., 233
- Dopheide, T.A.A., Tachedjian, M., Phillips, C., Frenkel, M.J., Wagland, B.M. and C.W. Ward, C.W.,
Molecular characterisation of a protective, 11-kDa excretory-secretory protein from the parasitic stages of *Trichostrongylus colubriformis*, 101
- Dubremetz, J.F., see Leriche, M.A., 249
- Duran, E., see Wheelock, M.J., 9
- Durieux, P.O., Schütz, P., Brun, R. and Köhler, R.,
Alterations in Krebs cycle enzyme activities and carbohydrate catabolism in two strains of *Trypanosoma brucei* during in vitro differentiation of their bloodstream to procyclic stages, 19
- Edwards, M.R., see Schofield, P.J., 39
- Eshete, F. and Bennett, J.L.,
The schistosomicidal compound Ro 15-5458 causes a reduction in the RNA content of *Schistosoma mansoni*, 1
- Facon, B., Chamekh, M., Dissous, C. and Capron, A.,
Molecular cloning of an *Echinococcus granulosus* protein expressing an immunogenic epitope of antigen 5, 233
- Farias, N.A.R., see Johnston, R.C., 155
- Franssen, F.F.J., see de Vries, E., 223
- Frasch, A.C.C., see Åslund, L., 345
- Frenkel, M.J., see Dopheide, T.A.A., 101
- Fung, K. and Clayton, C.,
Recognition of a peroxisomal tripeptide entry signal by the glycosomes of *Trypanosoma brucei*, 261
- Gajadhar, A.A., Marquardt, W.C., Hall, R., Gunderson, J., Ariztia-Carmona, E.V. and Sogin, M.L.,
Ribosomal RNA sequences of *Sarcocystis muris*, *Theileria annulata* and *Cryptosporidium parvum* reveal evolutionary relationships among apicomplexans, dinoflagellates, and ciliates, 147
- Garside, L., see Gibson, W., 77
- Gañán, S., see Gotz, G., 265
- Gepstein, A., see Zilberstein, D., 175
- Gibson, H.L., see Barr, P.J., 159
- Gibson, W. and Garside, L.,
Genetic exchange in *Trypanosoma brucei brucei*: variable chromosomal location of housekeeping genes in different trypanosome stocks, 77
- Glaser, T.A., Moody, S.F., Handman, E., Basic, A. and Spithill, T.W.,

- An antigenically distinct lipophosphoglycan on amastigotes of *Leishmania major*, 337
- Goman, M., Mons, B. and Scaife, J.,
The complete sequence of a *Plasmodium malariae* SSUrRNA gene and its comparison to other plasmodial SSUrRNA genes, 281
- Gonzales, J.C., see Johnston, R.C., 155
- Gotz, G., Gañán, S. and Parodi, A.J.,
Glucosylation of glycoproteins in *Crithidia fasciculata*, 265
- Grady, R.W., see Bienen, E.J., 185
- Green, K.M., see Barr, P.J., 159
- Gunderson, J., see Gajadhar, A.A., 147
- Hackett, F., see Ali, P.O., 215
- Hahn, B.K., see Barr, P.J., 159
- Hall, R., see Gajadhar, A.A., 147
- Hall, S.J., Sims, P.F.G. and Hyde, J.E.,
Functional expression of the dihydrofolate reductase and thymidylate synthetase activities of the human malaria parasite *Plasmodium falciparum* in *Escherichia coli*, 317
- Handman, E., see Glaser, T.A., 337
- Harris, B.G., see Ahanotu, P.A., 131
- Henriksson, J., see Åslund, L., 345
- Hollyer, T., see Ali, P.O., 215
- Hopkin, J.M., see Sinclair, K., 183
- Huima, T., see Lustigman, S., 65
- Hyde, J.E., see Hall, S.J., 317
- Inselburg, J., see Barr, P.J., 159
- Jaffe, C.L., see Zilberstein, D., 175
- Jeffs, S.A., see Ali, P.O., 215
- Johnson, K.R., see Wheelock, M.J., 9
- Johnson, K.S., see Cogle, W.G., 137
- Johnston, R.C., Farias, N.A.R., Gonzales, J.C., Dewes, H., Masuda, A., Termignoni, C., Amako, K. and Ozaki, L.S.,
A putative RNA virus in *Babesia bovis*, 155
- Kansopon, J., see Barr, P.J., 159
- Kemp, D.J., see Marshall, V.M., 349
- Klion, A.D., Raghavan, N., Brindley, P.J. and Nutman, T.B.,
Cloning and characterization of a species-specific repetitive DNA sequence from *Loa loa*, 297
- Kocken, C., see Moelans, I.I.M.D., 193
- Komuniecki, R., see Wheelock, M.J., 9
- Konings, R.N.H., see Moelans, I.I.M.D., 193
- Kranz, P., see Schofield, P.J., 39
- Köhler, R., see Durieux, P.O., 19
- Ledbetter, J.A., see Parsons, M., 241
- Lee-Ng, C.T., see Barr, P.J., 159
- Leriche, M.A. and Dubremetz, J.F.,
Characterization of the protein contents of rhoptries and dense granules of *Toxoplasma gondii* tachyzoites by subcellular fractionation and monoclonal antibodies, 249
- Li, W., see Barr, P.J., 159
- Lightowler, M.W., see Cogle, W.G., 137
- Lindgren, W.G., see Dame, J.B., 275
- Liveanu, V., see Zilberstein, D., 175
- LoVerde, P.T., see van Keulen, H., 205
- Lockyer, M.J.,
Clonal variation in the *Plasmodium falciparum* circumsporozoite protein gene (*Short communication*), 179
- Lustigman, S., Brotman, B., Huima, T. and Prince, A.M.,
Characterization of an *Onchocerca volvulus* cDNA clone encoding a genus specific antigen present in infective larvae and adult worms, 65
- MacKenzie, N.E., see Rainey, P.M., 307
- Marquardt, W.C., see Gajadhar, A.A., 147
- Marshall, V.M., Coppel, R.L., Martin, R.K., Oduola, A.M.J., Anders, R.F. and Kemp, D.J.,
A *Plasmodium falciparum* MSA-2 gene apparently generated by intragenic recombination between the two allelic families (*Short communication*), 349
- Martin, R.K., see Marshall, V.M., 349
- Masuda, A., see Johnston, R.C., 155
- Meade, J.C., Coombs, G.H., Mottram, J.C., Steele, P.E. and Stringer, J.R.,
Conservation of cation-transporting ATPase genes in *Leishmania*, 29
- McGraw, R.A., see Su, X., 331
- Meadows, H.M., see Ali, P.O., 215
- Meis, J.F.G.M., see Moelans, I.I.M.D., 193
- Mertz, P.M., see van Keulen, H., 205
- Meza, I., see Torres-Guerrero, H., 121
- Mikkelsen, R.B., see Read, L.K., 109
- Min, X., see Dissanayake, S., 49
- Moelans, I.I.M.D., Meis, J.F.G.M., Kocken, C., Konings, R.N.H. and Schoenmakers, J.G.G.,
A novel protein antigen of the malaria parasite *Plasmodium falciparum*, located on the surface of gametes and sporozoites, 193
- Mons, B., see Goman, M., 281
- Moody, S.F., see Glaser, T.A., 337
- Mottram, J.C., see Meade, J.C., 29
- Nutman, T.B., see Klion, A.D., 297
- Oduola, A.M.J., see Marshall, V.M., 349
- Oppendoerf, F.R., see Ter Kuile, B.H., 171
- Overdulve, J.P., see de Vries, E., 223
- Owen, C.A., see Ali, P.O., 215
- Ozaki, L.S., see Johnston, R.C., 155
- Parodi, A.J., see Gotz, G., 265
- Parsons, M., Valentine, M., Deans, J., Schieven, G.L. and Ledbetter, J.A.,
Distinct patterns of tyrosine phosphorylation during the life cycle of *Trypanosoma brucei*, 241
- Peattie, D.A., see Torres-Guerrero, H., 121
- Pettersson, U., see Åslund, L., 345
- Phillips, C., see Dopheide, T.A.A., 101
- Piessens, W.F., see Dissanayake, S., 49
- Pollakis, G., see Bienen, E.J., 185
- Prestwood, A.K., see Su, X., 331
- Prince, A.M., see Lustigman, S., 65
- Raghavan, N., see Klion, A.D., 297
- Rainey, P.M. and MacKenzie, N.E.,
A carbon-13 nuclear magnetic resonance analysis of the products of glucose metabolism in *Leishmania pifanoi* amastigotes and promastigotes, 307
- Rajan, T.V., see Caulagi, V.R., 57
- Read, L.K. and Mikkelsen, R.B.,
Plasmodium falciparum-infected erythrocytes contain an adenylate cyclase with properties which differ from those of the host enzyme, 109
- Rekosh, D.M., see van Keulen, H., 205
- Rickard, M.D., see Cogle, W.G., 137

- Sacks, D.L., see Turco, S.J., 91
 Saric, M., see Bienen, E.J., 185
 Scaife, J., see Goman, M., 281
 Schieven, G.L., see Parsons, M., 241
 Schoenmakers, J.G.G., see Moelans, I.I.M.D., 193
 Schofield, P.J., Edwards, M.R. and Kranz, P.,
 Glucose metabolism in *Giardia intestinalis*, 39
 Schütz, P., see Durieux, P.O., 19
 Shi, H., see van Keulen, H., 205
 Simpson, A.J.G., see Ali, P.O., 215
 Sims, P.F.G., see Hall, S.J., 317
 Sinclair, K., Wakefield, A.E., Banerji, S. and Hopkin, J.M.,
 Pneumocystis carinii organisms derived from rat and human hosts
 are genetically distinct (*Short communication*), 183
 Smithers, S.R., see Ali, P.O., 215
 Sogin, M.L., see Gajadhar, A.A., 147
 Spithill, T.W., see Glaser, T.A., 337
 Srinivasan, N.G., see Ahanotu, P.A., 131
 Stam, J.G., see de Vries, E., 223
 Steele, P.E., see Meade, J.C., 29
 Stringer, J.R., see Meade, J.C., 29
 Su, X., Prestwood, A.K. and McGraw, R.A.,
 Cloning and expression of complementary DNA encoding an anti-
 gen of *Trichinella spiralis*, 331
 Tachedjian, M., see Dopheide, T.A.A., 101
 Ter Kuile, B.H. and Opperdoes, F.R.,
 Chemostat cultures of *Leishmania donovani* promastigotes and
 Trypanosoma brucei procyclic trypomastigotes (*Short communi-
 cation*), 171
 Termignoni, C., see Johnston, R.C., 155
 Torres-Guerrero, H., Peattie, D.A. and Meza, I.,
 Chromatin organization in *Entamoeba histolytica*, 121
 Turco, S.J. and Sacks, D.L.,
 Expression of a stage-specific lipophosphoglycan in *Leishmania*
 major amastigotes, 91
 Valentine, M., see Parsons, M., 241
 Van der Vliet, P.C., see de Vries, E., 223
 Van Keulen, H., Mertz, P.M., LoVerde, P.T., Shi, H. and Rekosh,
 D.M.,
 Characterization of a 54-nucleotide gap region in the 28S rRNA
 gene of *Schistosoma mansoni*, 205
 Wagland, B.M., see Dopheide, T.A.A., 101
 Wakefield, A.E., see Sinclair, K., 183
 Walter, R.D., see Albrecht, S., 289
 Ward, C.W., see Dopheide, T.A.A., 101
 Werner, C., see Caulagi, V.R., 57
 Wheelock, M.J., Komuniecki, R., Duran, E. and Johnson, K.R.,
 Characterization of cDNA clones for the beta subunit of pyruvate
 dehydrogenase from *Ascaris suum*, 9
 Yowell, C.A., see Dame, J.B., 275
 Zilberstein, D., Blumenfeld, N., Liveanu, V., Gepstein, A. and Jaffe,
 C.L.,
 Growth at acidic pH induces amastigote stage-specific protein in
 Leishmania promastigotes (*Short communication*), 175

Subject index

- Aberrant translation initiation, 317
Ascaris suum, 9
 Acetate, 39
 cis-Aconitate, 19
 Actin mRNA, 1
 Adenylate cyclase, 109
 Alanine, 39
 Alternative oxidase, 185
 Amastigote, 91, 307, 337
 cAMP, 109
 Antigen, 233, 249, 337
 Aphidicolin, 223
 Apicomplexa, 147
Ascaris suum, 131, 289

Babesia bigemina, 155
Babesia bovis, 155
Brugia malayi, 57

¹³C-NMR, 307
Caenorhabditis elegans, 57
 Carbon balance, 19
 Cation transporting ATPase gene, 29
 Chemiluminescent label, 49
 Chemostat, 171
 Chromatin, 121
 Chromosome, 77
 Circumsporozoite protein gene, 179
 Collagen gene, 57
Cryptosporidium parvum, 147
 Cyanide-resistant respiration, 185

 Dense granule, 249
 Developmental regulation, 337
 Diagnosis, 233
 Diagnostic probe, 281
 Difluoromethylornithine, 241
 Digestion, 131
 Dihydrofolate reductase-thymidylate synthetase, 317
 DNA polymerase, 223
 DNA probe, 49
 DNA sequence, 137
 DNA sequencing, 331
 Dinoflagellata, 147
 cDNA, 137, 215
 cDNA cloning, 331

rDNA, 205
Drug effects, 1

Echinococcus granulosus, 233
Entamoeba histolytica, 121
Entry signal, 261
Environmental pH, 175
Escherichia coli, 317
Ethanol, 39
Excretory-secretory, 101

Filariasis, 49, 57, 297
Fraction II, 137

Gap sequence, 205
Gene expression, 29, 331
Gene, 233
Genetic exchange, 77
Giardia intestinalis, 39
Glucose metabolism, 39, 307
Glycoconjugate, 91
Glycoprotein, 265
Glycosome, 261

Helminth, 275
Heterologous expression, 317
Host protection, 101
Hydatidosis, 233
Hypobiosis, 275

Immunodiagnosis, 65
Immunoelectron microscopy, 65
Integral membrane glycoprotein, 215

Kinetoplast DNA, 77

LSD binding, 289
Leishmania, 29, 91, 337
Leishmania ATPase locus, 29
Leishmania development, 175
Leishmania donovani, 171, 175
Leishmania pifanoi, 307
Lipophosphoglycan, 91, 337
Loa loa, 297

Macrogamete membrane protein, 193
Malaria vaccine, 159
Malaria vaccine candidate, 193
Malaria, 179, 223
Mitochondria, 185
Molecular cloning, 9
Monoclonal antibody, 249
Muramyl peptide adjuvant, 159

Nematode, 57, 275
Neuroleptics, 289
Neurotransmitting, 289
Nuclear proteins, 121

Onchocerca volvulus, 65, 289

Oncosphere antigen, 137
Oxidative phosphorylation, 185

P49 antigen, 331
Phosphofructokinase, 131
Plasmodium falciparum, 109, 159, 179, 223, 317
Plasmodium berghei, 223
Plasmodium malariae, 281
Polyadenylation, 137
Polymerase chain reaction, 49, 331
Procyclic trypomastigote, 171
Promastigote, 171, 175, 307
Protein tyrosine kinase, 241
Protozoan virus, 155
Pyruvate dehydrogenase complex, 9

Receptor, 289
Recombinant antigen, 65
Reduction in RNA content, 1
Repetitive DNA, 297
Rhodamine 123, 185
Rhoptry, 249
Ribosomal RNA, 147
Ribosomal DNA, 275
RNA, 5.8S, 281
Ro 15-5458, 1
rRNA, 28S, 205

SERA, 159
SSUrRNA, 281
Sarcocystis muris, 147
Schistosoma mansoni, 1, 205, 215
Sequence, 215
Species specificity, 49
Sporozoite surface protein, 193
Stage regulation, 241
Stage-specific expression, 193
Subcellular organelle, 249
Subcellular fractionation, 249

Taenia taeniaeformis, 137
Tegumental antigen, 215
Theileria annulata, 147
Toxoplasma gondii, 249
Transformation, 19
Transient glucosylation, 265
Tricarboxylic acid cycle, 19
Trichinella spiralis, 331
Trichostrongylus colubriformis, 101
Trypanosoma brucei brucei, 19
Trypanosome, 29, 77, 185, 241
Trypanosoma brucei, 77, 171, 261
Trypanosomatid, 265
Trypsin, 131
Tyrosine phosphatase, 241

Virus-like particle, 155

Wuchereria bancrofti, 49

